

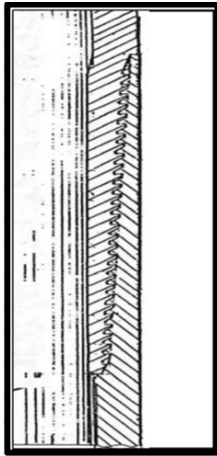


**WOOLLEY FLUSH JOINT LINER TECHNICAL DATA**

**SPECIAL FEATURES**

Hook thread prevents jump out and hoop loading caused by tension loads. The elimination of hoop loading improves pressure seal under both tension and compression loading of the joint.

If you want a FLUSH-FLUSH O.D. JOINT, this is the best joint for you. It is economical, dependable, and fast running.

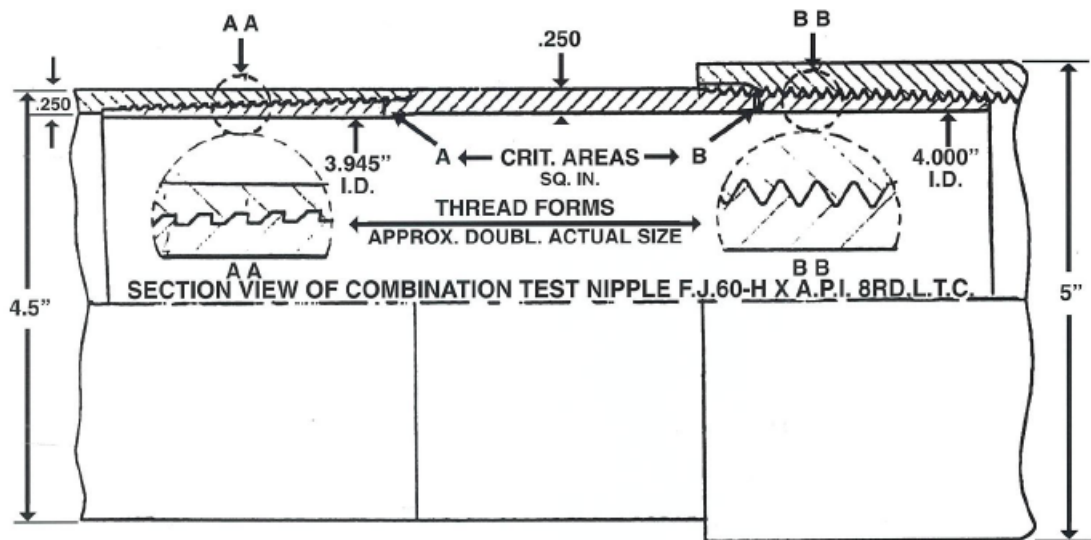


<b>3 1/2"</b>	<b>8.81 lbs/ft</b>	<b>FJ-HS</b>	<b>J55</b>	<b>N80</b>	<b>P110</b>
<b><u>PIPE BODY DIMENSIONS</u></b>					
Nominal Pipe Body O.D. (in)			3.500	3.500	3.500
Nominal Pipe Body I.D. (in)			2.992	2.992	2.992
Nominal Wall Thickness (in)			0.254	0.254	0.254
Nominal Weight (lbs/ft)			9.200	9.200	9.200
Plain End Weight (lbs/ft)			8.810	8.810	8.810
Drift I.D. (in)			2.867	2.867	2.867
<b><u>PIPE BODY PERFORMANCE DATA</u></b>					
Minimum Pipe Body Yield Strength (lbs)			142,500	207,200	284,900
Minimum Collapse Pressure (psi)			7,400	10,540	13,530
Minimum Internal Yield Pressure (psi)			6,990	10,160	13,970
<b><u>CONNECTION DIMENSIONS AND PERF. DATA</u></b>					
Connection O.D. (in)			3.500	3.500	3.500
Pin Connection I.D. (in)			2.992	2.992	2.992
Make-up Loss (in)			2.325	2.325	2.325
Critical Area (sq in)			1.425	1.425	1.425
Joint Efficiency (%)			55	55.000	55
Reference Minimum Parting Load (lbs)			135,000	142,000	178,000
Reference String Length (ft)			7,683	9,514	12,636
Collapse Pressure Rating (psi)			7,400	10,540	13,530
Internal Pressure Rating (psi)			6,990	10,160	13,970
<b><u>RECOMMENDED MAKE-UP TORQUE</u></b>					
Minimum Final Torque (ft/lbs)			700	800	800
Maximum Final Torques (ft/lbs)			1,400	1,100	1,100

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SKETCH TO ILLUSTRATE THE SET UP FOR TENSILE TESTING, PARTING LOAD CAPACITY OF WOOLLEY F.J.60-H FLUSH JOINT THREAD VS. A.P.I., 8RD, L.T.C. THREADS CUT ON OPPOSITE ENDS OF EACH J OR K-55 4 1/2" O.D., 11.60# CASING TEST NIPPLE



Repeated tests with above setup established two things. the A.P.I. 8rd thread always jumped out at approximately 160,000# tension, leaving the flush joint F.J.60-H undamaged and not tested near to its limit.

The setup was then changed to F.J.60-H thread on both ends of the same test nipples in order to determine parting load of the flush joint thread.

On this setup we had repeated parting loads of 196,000# with one test going to 220,000#.

On all tests to ultimate tensile on the F.J.60-H flush joint, there were no jump outs. All pins parted in critical root of the last effective pin thread.

All tension testing started at 100,000#, then increased in tensile steps of 15,000# with Hydrottest to 6,000 psi between tensile steps. There were no leaks prior to parting.